August 1962

Approved For Release 2001/07/12 : CIA-RDP78-02820A000800050041-3

27 August 1962

MEMERANDUM FOR THE RECORD

TROM :

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SUBJECT: Rehabilitation of Mobile Communication Assets

#### I. BACKGROUND

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Several inquiries have been received pertaining to possible modification of certain Mobile and Transportable Communications Systems. Notably, came in requesting authority to install Radio-Teletype capability to 25T's; a 65T was returned from an operation and requires refurbishing; and originally. Project E-5209 was established in August 1961 to renovate

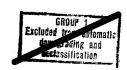
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In addition to the above specific instances, there has long been a general feeling that KUCLIB has been falling behind in maintaining a Mobile Communication especiality, while the military services and commercial manufacturers have gone ahead with development, integrating new equipments, systems and techniques into transportable and mobile configurations.

#### II. PRESENT SITUATION

Scattered world wide, in various depots, werehouses and parking lots, KUCLUB has a variety of mobile communications systems in various degrees of readiness or non-readiness to satisfy emergency, back-up and other quick-reaction type communications requirements. A descriptive summary of these systems, along with their locations, is shown in Attachment A.

Correspondence has been directed to the various Area or Activity Staffs concerned with these systems, requesting a thorough physical inventory and survey of the units. The results of the survey, along with field comments regarding servicebility, operability, and recommendations toward modification and utilization, are to be returned to Headquarters Engineering. These data will enable a detailed analysis of the cost and feasibility of removating and modifying our Mobile Communications.



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On the basis of known information regarding the condition of certain units and extrapolation to the total problem, we have arrived at a tentative estimate of (in round figures) \$1,250,000. to up-date our present assets. Included in our costs are such items as:

- (1) Addition of Radio-Taletype capability to those systems not so equipped.
- (2) Modernization of all systems to include installation of new and standard receivers, transmitters, teletype and ancilliary equipment in place of obsolete types.
- (3) Addition of SSB transmission and reception expability for multiplexing.
- (4) Repair and removation of shelters, wans, trailers and tractors.

Reiterating, this is a tentative estimate, subject to revision on the basis of more recent and complete data.

### III. POSSIBLE COURSES OF ACTION

- A. Maintain present systems with appropriate service and repair
  - (1) Advantages:
    - a. Loast expensive
  - (2) Disadventeges:
    - a. Obsolete equipment
    - b. Inadequate capability
    - c. Increasing maintenance costs due to lack of spare parts for communication equipment and rolling stock.





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## B. Modernize and expand present assets

## (1) Adventages:

- a. Overcomes disadvantages. (a and b above)
- b. Makes use of existing rolling stock
- c. Many units could be re-worked in the field, saying contracting and transportation costs.
- d. Can be initiated at least in part with "onhand" equipment

## (2) Disadvantages:

- a. Would require procurement of some individual equipments and systems from manufacturers and transportation to the field.
- b. Would require re-wiring and, in some cases, rebuilding of trailers and vans.
- would require installation of increased power plant capacity in some casez, i.e., new and larger generators.
- d. Would result in an amalgum of new and old equipment and comprise a patch-work of equipments and systems.
- C. Procure new and complete systems, including transportable shelters, self-contained truck-mounted units, and rolling stock.

### (1) Advantages:

- a. "Clean slate" approach
- b. Takes maximum advantage of developments in "state of the art".





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- c. Possible procurement under military contractural suspices with some savings in cost.
- d. Would result in more nearly standard installations, with uniformity of equipments and systems.

# (2) Mandyantages:

- a. Systems assembly expensive, maybe even prohibitively high.
- b. Would require long lead time for production, assembly and transportation of systems.

# IV. RECOMMENDATIONS FOR OC-E ACTION

- A. Continue present efforts to survey existing facilities.
- B. Gather date on military and connercially evailable systems.
- Determine exact and long-term requirements in conjunction with OC-OS.
- D. As more complete data and firm requirements become known, analyse existing assets and feasible improvements thereto as compared with the cost and feasibility of various alternate approaches.
- E. Determine most desirable course of action and take necessary steps to implement (budget, program, program, MNO's, et al).

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Attachment:

Mobile Communication Systems, Summary of

### Materibution:

Original - Routing/File

1 - Project File

2 - Monthly Report

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